

artdaq - Idea #15323

Setting alignment and padding defaults of QuickVec

01/26/2017 11:30 AM - Eric Flumerfelt

Status:	New	Start date:	01/26/2017
Priority:	Normal	Due date:	
Assignee:	Ron Rechenmacher	% Done:	0%
Category:	Under Consideration	Estimated time:	0.00 hour
Target version:			
Experiment:	-		
Description			
<p>For Direct-IO, artdaq::Fragments must be 512-byte aligned and their size must be a multiple of 512-bytes. We currently enforce the 512-byte alignment but QuickVecs are only sized in 8-byte increments.</p> <p>It would be really good if there was a compile-time way to change between "pad to" 8-bytes and 512-bytes, based on the needs of the experiment. We could have something like:</p> <pre>#ifndef QV_PADBYTES #define QV_PADBYTES 8 #endif</pre> <p>and then use a CMake add_definition(QV_PADBYTES 512) where needed.</p>			